

**DEPARTMENT OF TRANSPORTATION****DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-002410**Date Inspected:** 01-Mar-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** Don Walton**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coating Inspection**Bridge No:** 34-0006**Component:** Lift 5 West, OBG 8CE, Sub-Assemblies, Offi**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

**Office**

Attend to project files and documentation.

**OBG 8CE**

ZPMC requested internal undercoated surfaces for visual inspection and Dry Film Thickness (DFT) verification prior to removal from the painting workshop. Surfaces were found to be in general compliance with the following exceptions: Re-blast 1 location approximately 1- square meter re-apply Interzinc 22 undercoat at panel points 68-71 and panel point 68-69 overblast damage requires amendment.

**Sub-Assemblies**

Base metal surfaces of 571 "L" Splice plates and other assorted splice plates were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 applied, also 2 Traveler Rail Brackets were incorporated into this work and also undercoated as well which were returned from Trial Assembly for repairs. Chlorides were observed at 10µs/cm and Profile amplitude was 72-78µm.

**Sub-Assemblies**

Base metal surfaces of approximately 162 pieces of splice plates were washed and de-greased in accordance with SSPC SP-1 in preparation of abrasive blasting operations.

**Cross Beam #4**

Adhesion testing was performed and all values were in excess of 4Mpa concurrent with this inspection notification

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## SOURCE INSPECTION REPORT

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OBG 8CE and 1 Suspender Bracket was also tested for adhesion and found in compliance with minimum value specified.

Lift 5 West

Internal and external ongoing repairs were observed, internal repairs performed from Panel Points 31-32 Bottom Plate "T" stiffeners and floor areas and also Panel Point 30-31 East Side Plate abrasive blasting operations to amend damages to previously applied undercoat and remove "rust stain" Profile amplitude was 72-74µm and Interzinc 22 undercoat applied. Dehumidification (DH) was employed to control environmental conditions within the lift.

Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley when achievable. International Protective Coatings technical service representative were available for inspections and consultation.

### Summary of Conversations:

No relevant conversations on this date.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang (858) 699-9549, who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Lumley,James	Quality Assurance Inspector
<b>Reviewed By:</b>	Peterson,Art	QA Reviewer

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